



Infosafe No™	1CH3S	Issue Date : August 2020	RE-ISSUED by CHEMSUPP
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Product Name : **LITHIUM CHLORIDE Anhydrous**

Classified as hazardous

**1. Identification**

<b>GHS Product Identifier</b>	LITHIUM CHLORIDE Anhydrous	
<b>Company Name</b>	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)	
<b>Address</b>	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
<b>Telephone/Fax Number</b>	Tel: (08) 8440-2000	
<b>Emergency phone number</b>	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
<b>Recommended use of the chemical and restrictions on use</b>	Air conditioning, welding and soldering flux, dry batteries, desiccant, chemical production, heat-exchange media, salt baths, production of lithium metal, analytical reagent, soft drinks and mineral water to reduce escape of carbon dioxide and laboratory reagent.	
<b>Other Names</b>	<u>Name</u>	<u>Product Code</u>
	LITHIUM CHLORIDE Anhydrous LR	LL036
	Lithium monochloride	
	LITHIUM CHLORIDE Anhydrous TG	LT036
<b>Additional Information</b>	Not to be used as dietary salt substitute.	
<b>Other Information</b>	Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.	

**2. Hazard Identification**

<b>GHS classification of the substance/mixture</b>	Eye Damage/Irritation: Category 2A Acute Toxicity - Oral: Category 4 Skin Corrosion/Irritation: Category 2
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.
<b>Pictogram (s)</b>	Exclamation mark



<b>Precautionary statement – Prevention</b>	P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary statement – Response</b>	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.



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**Precautionary statement – Disposal** P501 Dispose of contents/container to an approved waste disposal plant.

**3. Composition/information on ingredients**

Chemical Characterization Solid

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Lithium chloride	7447-41-8	100 %		

**4. First-aid measures**

**Inhalation** If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Ingestion** Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

**Skin** Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.

**Eye contact** Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**First Aid Facilities** Maintain eyewash fountain and safety shower in work area.

**Advice to Doctor** Treat symptomatically based on judgement of doctor and individual reactions of the patient.

**Other Information** For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor at once.

**5. Fire-fighting measures**

**Hazards from Combustion Products** May liberate toxic fumes of chlorine, hydrogen chloride gas, lithium oxides.

**Specific Methods** Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media.

**Specific hazards arising from the chemical** Material does not burn. Runoff may pollute waterways. Fire or heat may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated.

**Precautions in connection with Fire** Wear SCBA and structural firefighter's uniform.

**6. Accidental release measures**

**Spills & Disposal** Evacuate unprotected personnel from danger area. In the event of spillage, use absorbent (soil, sand or inert medium) place into tightly closed containers. Adhere to personal protective measures. Flush the remainder with plenty of water. Label container and dispose of as hazardous waste.

**Personal Precautions** Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

**Personal Protection** Wear protective clothing specified for normal operations (see Section 8)

**Clean-up Methods - Small Spillages** Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

**7. Handling and storage**

**Precautions for Safe Handling** Avoid substance contact and generation and inhalation of dust. Wash hands and face thoroughly after working with material.

**Conditions for safe storage, including any incompatibilities** Store in a cool, dry place. Keep containers securely sealed and protected against physical damage.

**8. Exposure controls/personal protection**

**Other Exposure Information** No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m<sup>3</sup>. All atmospheric contamination should be kept to as low a level as is workable.

**Appropriate engineering controls** Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.



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<b>Respiratory Protection</b>	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
<b>Eye Protection</b>	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
<b>Hand Protection</b>	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
<b>Personal Protective Equipment</b>	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
<b>Footwear</b>	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
<b>Body Protection</b>	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
<b>Hygiene Measures</b>	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**9. Physical and chemical properties**

<b>Form</b>	Solid
<b>Appearance</b>	White, deliquescent crystals.
<b>Odour</b>	Odourless.
<b>Melting Point</b>	614 °C (anhydrous substance)
<b>Boiling Point</b>	1360 °C
<b>Solubility in Water</b>	Soluble (820 g/L @ 20 °C)
<b>Solubility in Organic Solvents</b>	Very soluble in alcohols, ether, pyridine and nitrobenzene. Readily soluble in acetone and amyl alcohol.
<b>Specific Gravity</b>	2.068 @ 25 °C
<b>pH</b>	~5.5 (50g/L, H <sub>2</sub> O, 20 °C).
<b>Flammability</b>	Non combustible material.
<b>Molecular Weight</b>	42.40

**10. Stability and reactivity**

<b>Chemical Stability</b>	Stable. One of the most hygroscopic salts known.
<b>Conditions to Avoid</b>	Moisture.
<b>Incompatible Materials</b>	Bromine trifluoride, strong acids, alkali metals, halogen-halogen compounds, strong oxidizing agents, moisture.
<b>Hazardous Decomposition Products</b>	May liberate toxic fumes of chlorine, hydrogen chloride gas, lithium oxides.
<b>Possibility of hazardous reactions</b>	Reacts violently with bromine trifluoride.
<b>Hazardous Polymerization</b>	Will not occur.

**11. Toxicological Information**

<b>Acute Toxicity - Oral</b>	LD50 (rat): 526 mg/kg (anhydrous substance)
<b>Ingestion</b>	Harmful if swallowed. May cause dizziness, drowsiness, ringing in the ears, impaired vision, visual disturbances, apathy, lack of appetite, loss of weight, anorexia, nausea, vomiting, diarrhea, polyuria,



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<b>Inhalation</b>	oliguria, tremors, cardiovascular failure, disturbed electrolyte balance, confusion, coma and death. May be harmful if inhaled. Causes respiratory tract irritation, coughing and dyspnoea.
<b>Skin</b>	Irritating to skin.
<b>Eye</b>	Irritating to eyes.
<b>Respiratory sensitisation</b>	Not classified based on available information.
<b>Skin Sensitisation</b>	Not classified based on available information.
<b>Germ cell mutagenicity</b>	Not classified based on available information.
<b>Carcinogenicity</b>	Not classified based on available information.
<b>Reproductive Toxicity</b>	Not classified based on available information.
<b>STOT-single exposure</b>	Not classified based on available information.
<b>STOT-repeated exposure</b>	Not classified based on available information.
<b>Chronic Effects</b>	Prolonged absorption may cause disturbed electrolyte balance and impair kidney function.
<b>Mutagenicity</b>	Not classified based on available information.

**12. Ecological information**

<b>Persistence and degradability</b>	Methods for the determination of biodegradability are not applicable to inorganic substances.
<b>Bioaccumulative Potential</b>	Distribution: log P(o/w): -2.7. No bioaccumulation is to be expected (log P(o/w) <1).
<b>Other Precautions</b>	Do not allow to enter waters, waste water, or soil!
<b>Acute Toxicity - Fish</b>	LC50 (Onchorhynchus mykiss): 158mg/l/96h (anhydrous substance)
<b>Acute Toxicity - Daphnia</b>	EC50 (Daphnia magna): 249 mg/l/48h (anhydrous substance)

**13. Disposal considerations**

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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**14. Transport information**

<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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**15. Regulatory information**

<b>Regulatory Information</b>	All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals Introduction Scheme (AICIS) regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
<b>Poisons Schedule</b>	Not Scheduled
<b>Hazard Category</b>	Harmful,Irritant

**16. Other Information**

<b>Literature References</b>	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.' Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.
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# Safety Data Sheet

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**Contact**

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

**Person/Point**

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